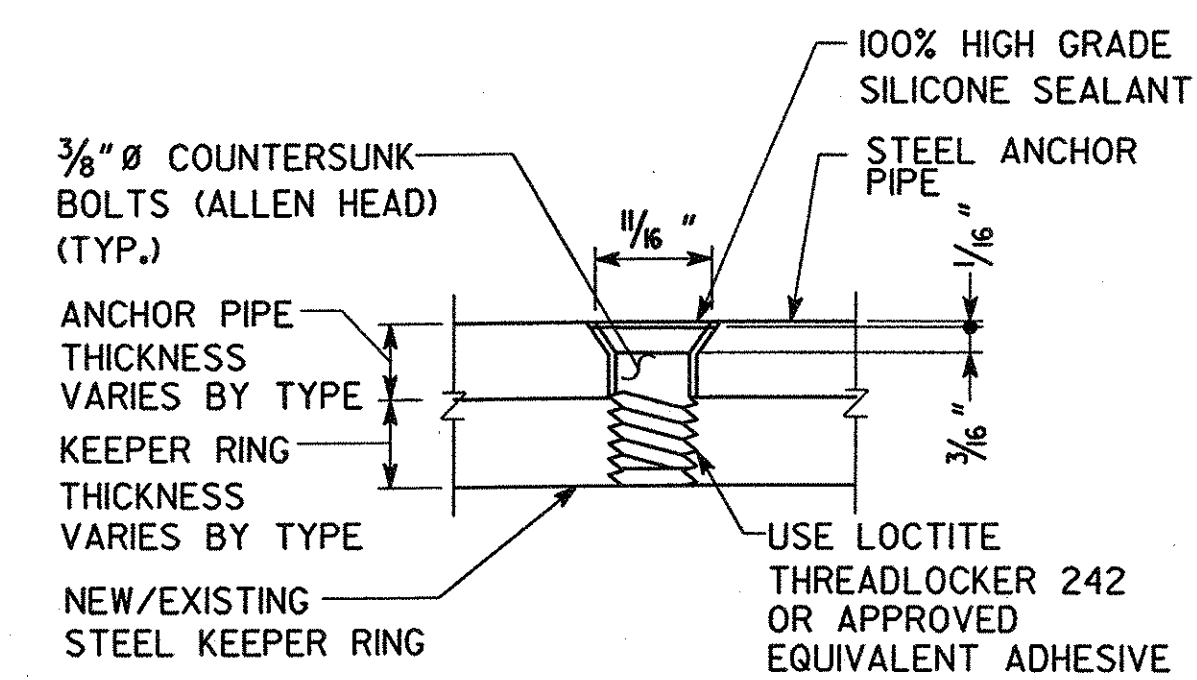
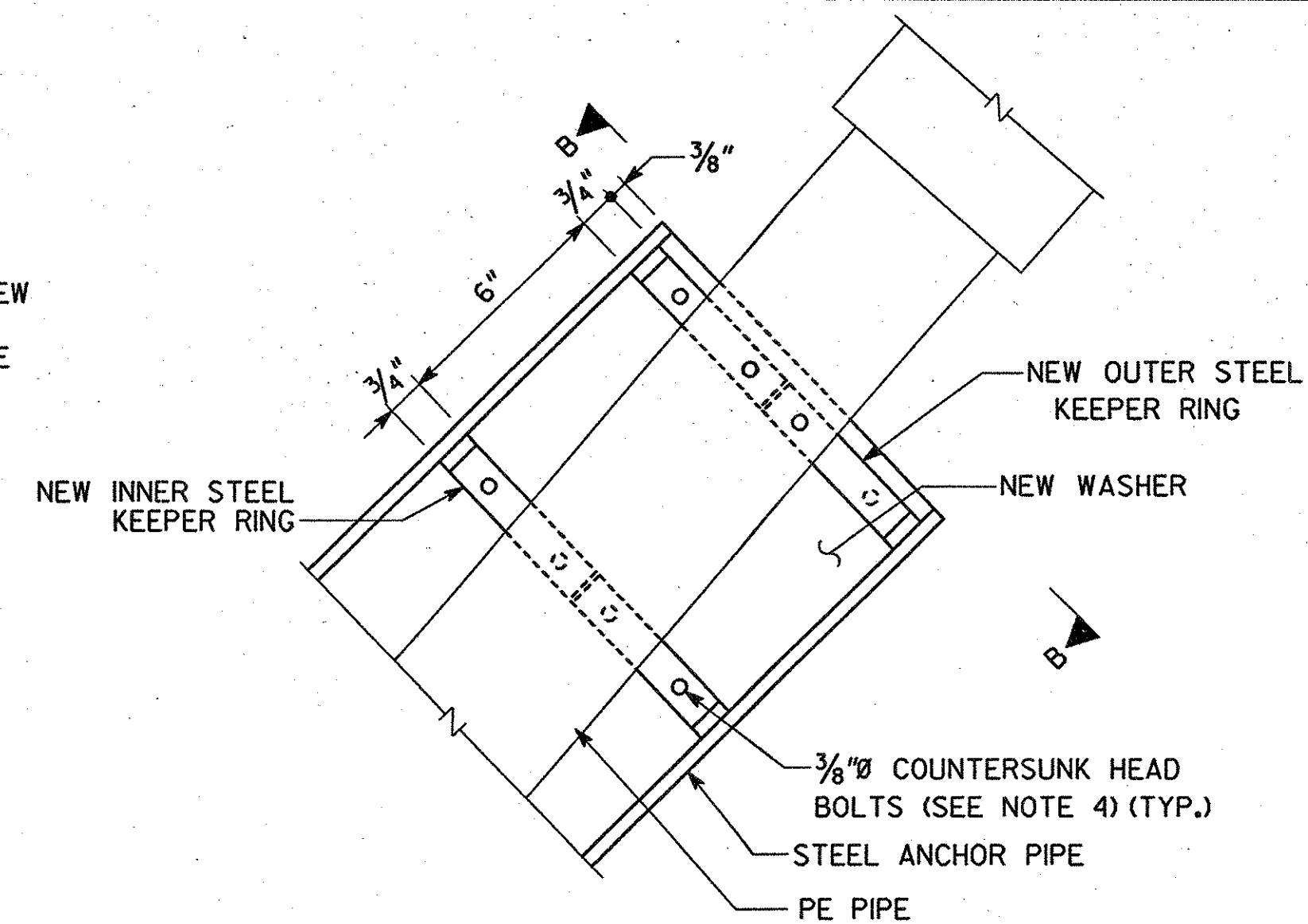
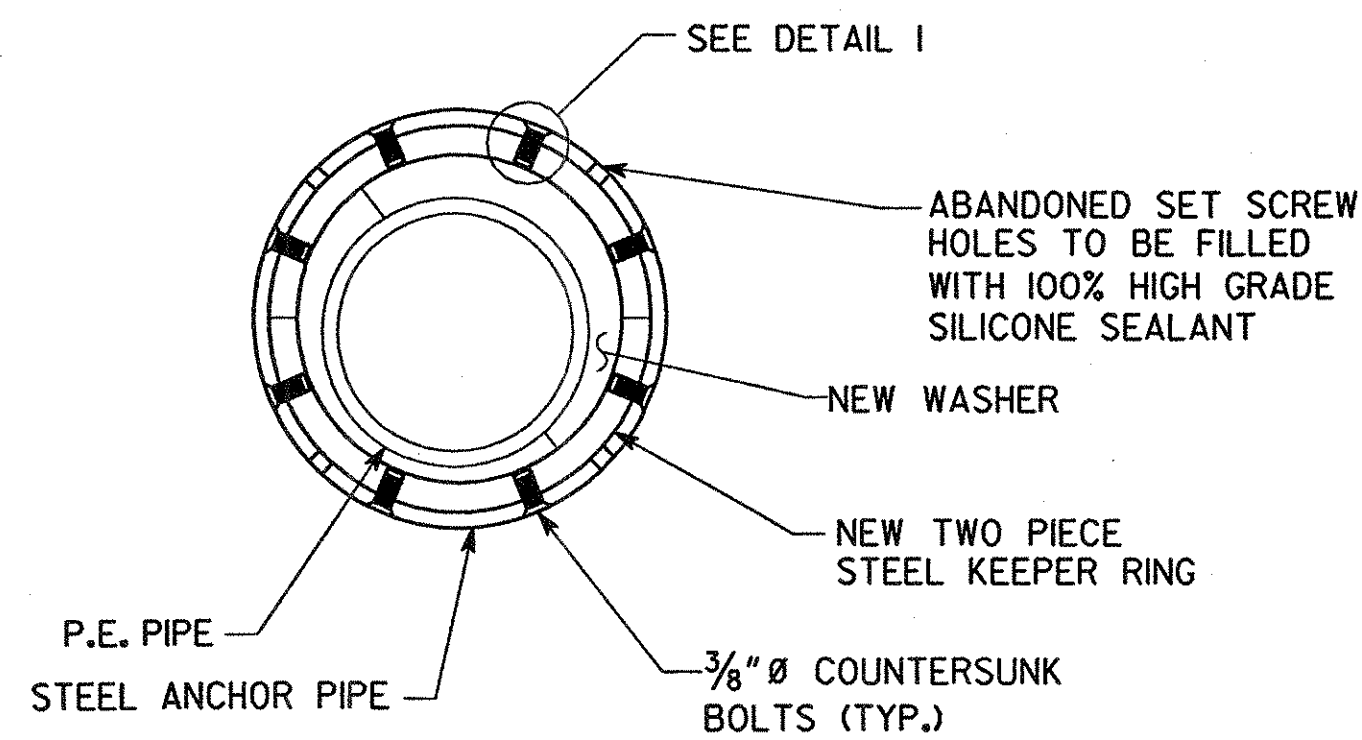
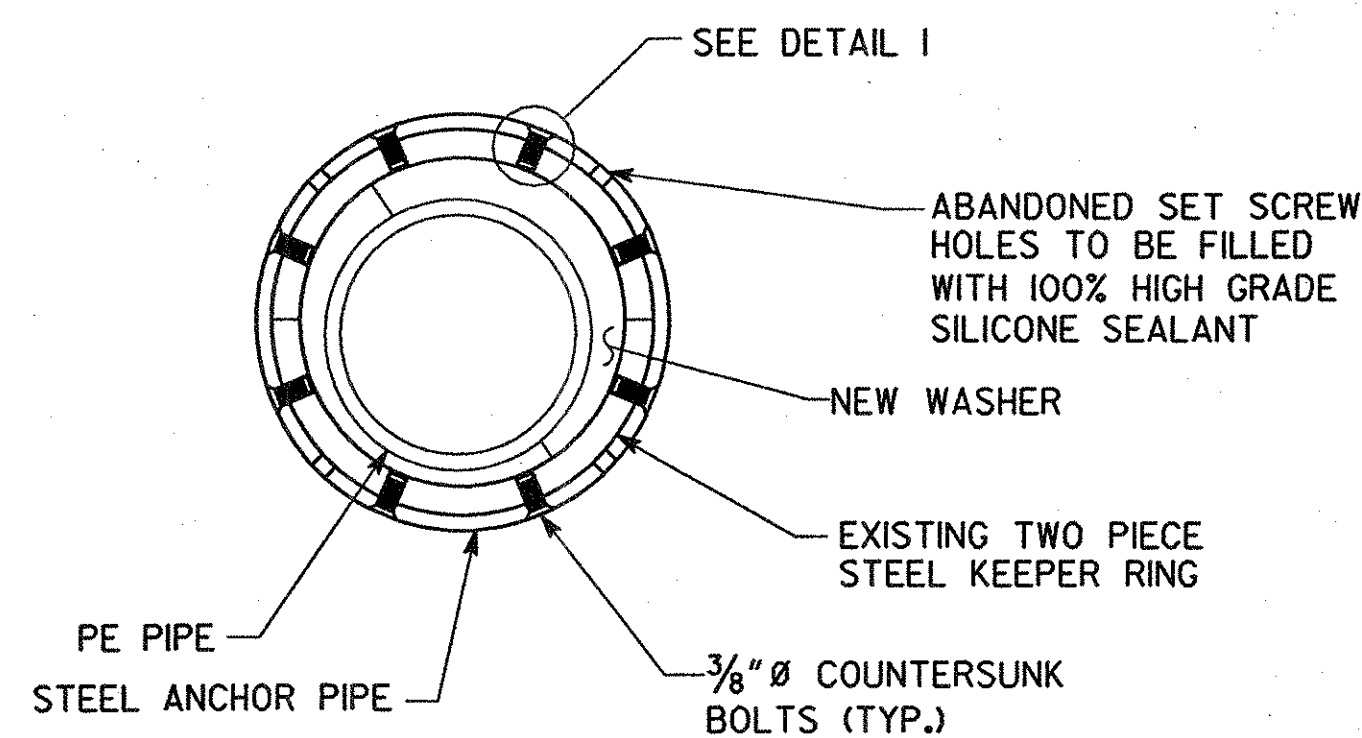
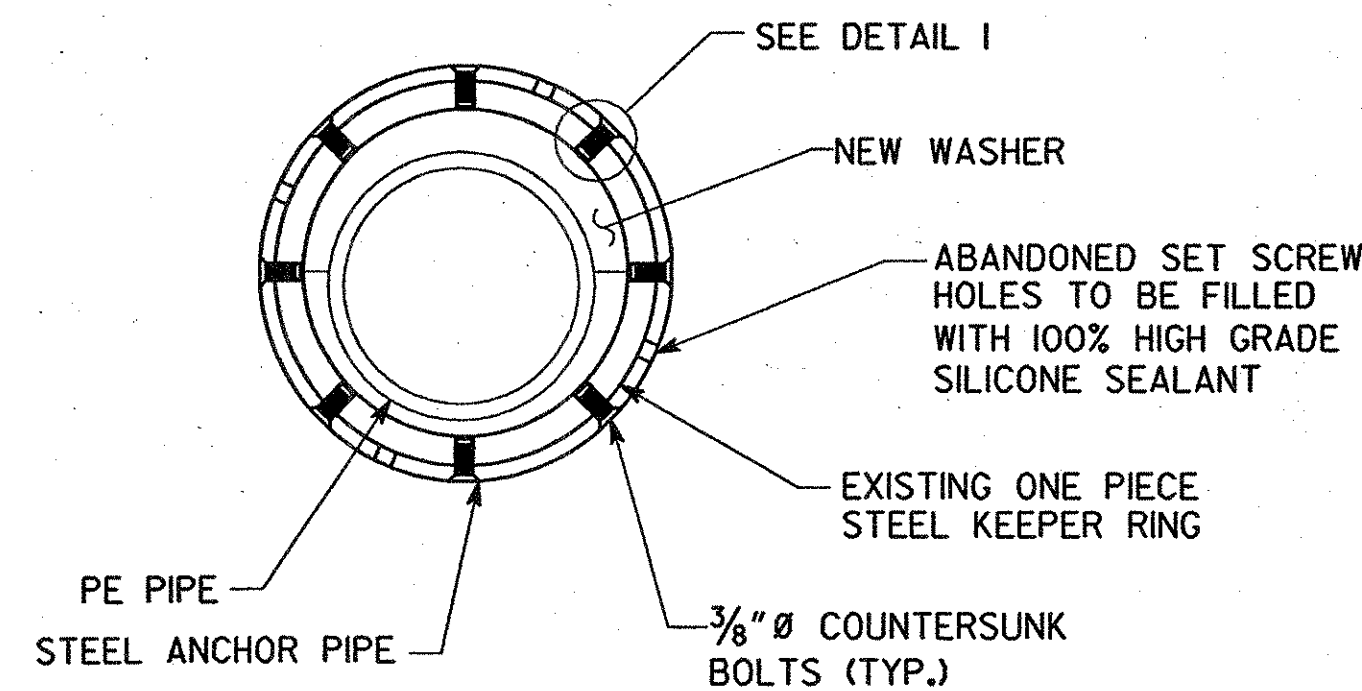


TABLE 16 - OUTSIDE & INSIDE DIAMETER FOR NEW WASHERS					
WASHER TYPE	CABLES	LOCATION	DIAMETER (IN)		
			O.D. <sup>(1)</sup>	I.D. <sup>(1)</sup>	
TYPE I	7 TO 29 & 44 TO 66	AT DECK	7.981±	5.563±	
TYPE II	6, 30 TO 33, 40 TO 43 & 67	AT DECK	8.941±	6.625±	
TYPE III	4, 5, 34 TO 39, 68 & 69	AT DECK	11±	8.625±	
TYPE IV	1 TO 3 & 70 TO 72	AT DECK	13.124±	10.75±	
TYPE V	7 TO 29 & 44 TO 66	AT TOWER	11.938±	5.563±	
TYPE VI	6, 30 TO 33, 40 TO 43 & 67	AT TOWER	13.124±	6.625±	
TYPE VII	4, 5, 34 TO 39, 68 & 69	AT TOWER	15±	8.625±	
TYPE VIII	1 TO 3 & 70 TO 72	AT TOWER	16.876±	10.75±	

(1) NOMINAL DIMENSIONS, CONTRACTOR TO FIELD VERIFY.

### NOTES

- FOR GENERAL NOTES SEE SHEET NO. 7.
- THE CONTRACTOR IS NOTIFIED THAT THE HOLE LOCATION FOR EACH WASHER WILL VARY DUE TO VARYING ANGLES OF THE STEEL ANCHOR PIPES AND THE PE PIPES. THE WASHERS MUST BE MANUFACTURED WITH A NON-CONCENTRIC HOLE.
- THE CONTRACTOR SHALL MEASURE DIMENSIONS REQUIRED FOR WASHERS AT THE 36 REPAIR LOCATIONS AFTER REPAIR IS COMPLETED AT THESE LOCATIONS.
- THE BOLT HOLES IN THE STEEL ANCHOR PIPE SHALL BE LOCATED AND DRILLED USING THE SEQUENCED OUTLINE ON SHEET NO. 12.



REPAIR LEGEND	
REPAIR	DESCRIPTION
①	STEEL ANCHOR PIPE CRACK REPAIR
②	HEAT STRAIGHTENING OF STEEL ANCHOR PIPE
③	REMOVAL OF EXISTING PROTECTIVE BOOTS, STEEL KEEPER RINGS AND WASHERS
④	INSTALLATION OF NEW WASHERS AND STEEL KEEPER RINGS
⑤	PROTECTIVE BOOT RETROFIT
⑥	MISCELLANEOUS CONCRETE REPAIRS
⑦	TIE-DOWN BOOT REPAIR
⑧	MISCELLANEOUS ELECTRICAL REPAIRS
⑨	CABLE STAY PROTECTIVE TAPE REPAIR

BRIDGE SHEET  
13 OF 26

DATE  
REVISIONS  
BY

**Lichtenstein**  
Consulting Engineers  
11 HURON DRIVE, NATICK, MA 01760  
GEORGIA

**DEPARTMENT OF TRANSPORTATION**  
OPERATIONS DIVISION-OFFICE OF MAINTENANCE

**KEEPER RING & WASHER RETROFIT 3 OF 5**  
**TALMADGE MEMORIAL BRIDGE RETROFIT**  
**CHATHAM COUNTY CSNHS-M002-00 (373)**

NO SCALE MARCH 2006

DESIGNED K.J.B.	CHECKED T.S.	REVIEWED
DRAWN R.B.H.	DESIGN GROUP MAINTENANCE	APPROVED